

Sec 4 Maths

Exam papers with worked solutions

SET B PAPER 1 Answer

Compiled by

THE MATHS CAFE

Answer Key

1. $y = 3x - 2x^2 - 3\frac{1}{8}$
2. $-\frac{1}{2}$ unit/s
3. $h=2, k=3$
4. Min grad = 3
5. $\frac{2x^2 - 6x - 2}{(2x - 3)^2}, 1\frac{3}{5}$
6. (i) $-4\sin(2x + \frac{\pi}{4})$
(ii) $\frac{11\pi}{24} = 1.44$
7. (i) $\frac{8}{343}$
(ii) $x=2$
8. (i) $h \geq \frac{1}{2}, k \leq \frac{1}{6}$
(ii) $\frac{1}{6} \leq x \leq \frac{1}{2}$
9. (i) 14
(ii) (26, -4)
(iii) $4x - 3y - 116 = 0$
(iv) $(6, -30\frac{2}{3})$
10. (i) 4π
(ii) -4
(iii) 2.46, 10.1 (v) 3
11. (a) $30^\circ, 90^\circ, 150^\circ$
(b) 0.554, 2.12
12. (ii)(a) $P \approx 225.9$
(ii)(b) $n \approx 1.5$
(ii)(c) 1999